

VAX/VMS Disk Quota Utility Reference Manual

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VAX/VMS Disk Quota Utility Reference Manual

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This document describes the Disk Quota Utility for use on VAX processors.

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Preface

Intended Audience

This manual is intended for VAX/VMS system managers, operators, and system programmers.

Structure of This Document

This document is composed of three major sections.

The Format Section is an overview of DISKQUOTA and is intended as a quick reference guide. The format summary contains the DCL command that invokes DISKQUOTA, listing all commands and qualifiers. The usage summary describes how to invoke and exit from DISKQUOTA, how to direct output, and any restrictions you should be aware of.

The Description Section explains how to use DISKQUOTA.

The Command Section describes each DISKQUOTA command. Commands appear in alphabetical order.

Associated Documents

For additional information on the topics covered in this document, refer to the *VAX/VMS DCL Dictionary* and the *Guide to VAX/VMS System Management and Daily Operations*.

Conventions Used in This Document

Convention	Meaning
<code>RET</code>	A symbol with a one- to three-character abbreviation indicates that you press a key on the terminal, for example, <code>RET</code> .
<code>CTRL/x</code>	The phrase CTRL/x indicates that you must press the key labeled CTRL while you simultaneously press another key, for example, CTRL/C, CTRL/Y, CTRL/O.
<code>\$ SHOW TIME</code> <code>05-JUN-1985 11:55:22</code>	Command examples show all output lines or prompting characters that the system prints or displays in black letters. All user-entered commands are shown in red letters.
<code>\$ TYPE MYFILE.DAT</code> . . .	Vertical series of periods, or ellipsis, mean either that not all the data that the system would display in response to the particular command is shown or that not all the data a user would enter is shown.
file-spec,...	Horizontal ellipsis indicates that additional parameters, values, or information can be entered.

Preface

Convention	Meaning
[logical-name]	Square brackets indicate that the enclosed item is optional. (Square brackets are not, however, optional in the syntax of a directory name in a file specification or in the syntax of a substring specification in an assignment statement.)
quotation marks apostrophes	The term quotation marks is used to refer to double quotation marks ("). The term apostrophe (') is used to refer to a single quotation mark.

New and Changed Features

There are no technical changes in the Disk Quota Utility for VAX/VMS
Version 4.0.

DISK QUOTA

Description

MODIFY
/PERMQUOTA
=quota
/OVERDRAFT
=quota-plus
REBUILD
REMOVE
SHOW
USE

DESCRIPTION You use the Disk Quota Utility to allocate disk volume space to users. Table DQT-1 summarizes the DISKQUOTA commands by format and function.

Table DQT-1 DISKQUOTA Command Summary

Command	Function
ADD	Adds an entry to the quota file
CREATE	Creates a quota file for a volume that does not currently contain one
DISABLE	Suspends quota operations on a volume
ENABLE	Resumes quota operations on a volume
EXIT	Returns the user to DCL command level
HELP	Lists the DISKQUOTA commands
MODIFY	Changes an entry in the quota file
REBUILD	Reconstructs the usage counts for all entries
REMOVE	Deletes an entry from the quota file
SHOW	Displays quotas and usage counts
USE	Specifies the volume to be acted upon

1

Creating a New Quota File

The sequence of commands for creating a new quota file usually includes:

- 1 USE—To name the volume (can be omitted if the volume is the user's default device)
- 2 CREATE—To create the quota file
- 3 MODIFY—To set the quota and overdraft for UIC [0,0]
- 4 REBUILD—To add entries for existing files (can be omitted on an empty volume)
- 5 ADD—To add entries (one ADD command per entry) for UICs not automatically added during Step 4

The sequence of commands for modifying an existing quota file typically includes (1) a USE command followed by (2) an ADD, MODIFY, or REMOVE command for each entry being changed.

2

Error Messages

The *VAX/VMS System Messages and Recovery Procedures Reference Manual* lists messages issued by the Disk Quota Utility, and provides explanations and suggested user actions.

DISK QUOTA

Commands

COMMANDS

This section describes DISKQUOTA commands and provides examples of their use.

ADD

Adds an entry to the quota file. The usage count for a new entry is initialized to zero. The ADD command requires write access to the quota file.

FORMAT

ADD *uic*

command parameter

uic

Specifies the user identification code (UIC) for which the quota entry is added. You can specify the UIC in numeric or alphanumeric format. (For complete information on UIC specification, refer to the *VAX/VMS DCL Dictionary*.)

command qualifiers

/PERMQUOTA=quota

Specifies a positive integer that provides the quota for the specified UIC. If you omit the quota value, the quota defaults to the value of the quota in the entry for [0,0].

/OVERDRAFT=quota-plus

Specifies a positive integer that provides an overdraft value for the specified UIC. If you omit the quota-plus value, the overdraft value defaults to the quota-plus in the entry for [0,0].

EXAMPLE

DISKQ> **ADD [300,211] /PERMQUOTA=200/OVERDRAFT=50**

The command in this example sets the quota for UIC [300,211] to 200 and the overdraft to 50 (for an absolute limit of 250 blocks).

DISK QUOTA
CREATE

CREATE

Creates a quota file for a volume that does not currently contain one.

FORMAT **CREATE**

command parameters *None.*

command qualifiers *None.*

DESCRIPTION A quota file must not already be present on the volume being used. The CREATE command should be immediately followed by a MODIFY command for UIC [0,0] with quota and overdraft set to reasonable default values.

The CREATE command requires write access to the volume's master file directory (MFD), as well as one or more of the following: SYSPRV privilege, a system UIC, or ownership of the volume.

EXAMPLE

DISKQ> **CREATE**

The command in this example creates a new quota file.

DISABLE

Suspends the maintenance and enforcement of quotas on a volume.
Use of the **DISABLE** command requires one or more of the following: the **SYSPRV** privilege, a system **UIC**, or ownership of the volume.

FORMAT	DISABLE
command parameters	<i>None.</i>
command qualifiers	<i>None.</i>

EXAMPLE

DISKQ> DISABLE

The command in this example suspends quota enforcement.

DISK QUOTA
ENABLE

ENABLE

Resumes quota enforcement on a volume.

Use of the ENABLE command requires one of the following: the SYSPRV privilege, a system UIC, or ownership of the volume.

FORMAT ENABLE

command
parameters

None.

command
qualifiers

None.

EXAMPLE

DISKQ> **ENABLE**

The command in this example resumes quota enforcement.

EXIT

Returns the user to DCL command level.

FORMAT**EXIT****command
parameters**

None.

**command
qualifiers**

None.

EXAMPLE

DISQ> EXIT

The command in this example terminates the DISKQUOTA session and returns control to the DCL level.

DISK QUOTA

HELP

HELP

The HELP command lists and explains the DISKQUOTA commands.

FORMAT

HELP [*command*]

command parameters

command

Specifies the name of a DISKQUOTA command.

command qualifiers

None.

EXAMPLE

DISKQ> **HELP** **ENABLE**

ENABLE

Enable diskquotas on the default volume. The default volume may be selected by issuing the USE command. Once a quota file is created on a volume, disk quotas are assumed enabled until explicitly disabled.

FORMAT:

ENABLE

The command in this example displays information about the **ENABLE** command.

MODIFY

Changes an entry in the quota file. The MODIFY command requires write access to the quota file.

If the disk quota is less than the current usage count, a warning message is issued. (The new quota does take effect, however.)

FORMAT

MODIFY *uic*

command parameter

uic

Specifies the user identification code (UIC). You can specify the UIC in numeric or alphanumeric format. (For complete information on UIC specification, refer to the *VAX/VMS DCL Dictionary*.)

command qualifiers

/PERMQUOTA=quota

Specifies a positive integer that provides the quota for the specified UIC. If you omit the quota value, the quota defaults to the value of the quota in the entry for [0,0].

/OVERDRAFT=quota-plus

Specifies a positive integer that provides an overdraft value for the specified UIC. If you omit the quota-plus value, the overdraft value defaults to the quota-plus in the entry for [0,0].

EXAMPLE

DISKQ> **MODIFY** [300,211] **/PERMQUOTA=300**

The command in this example sets the permanent quota for UIC [300,211] to 300 blocks, while making no change to the overdraft.

DISK QUOTA

REBUILD

REBUILD

Reconstructs the usage counts for all entries on the volume.

FORMAT

REBUILD

command parameters

None.

command qualifiers

None.

DESCRIPTION

The REBUILD command automatically adds entries for files owned by UICs with no entries in the quota file, setting their quotas and overdrafts to the values of the defaults in UIC [0,0]. While the REBUILD command is executing, file activity on the volume is frozen—no files can be created, deleted, extended, or truncated. For this reason, the command should be used judiciously, normally in the following situations:

- Establishing a quota file—When a quota file is created on a volume with existing files, the REBUILD command should be run before the ADD command. REBUILD adds entries and records the existing usage for all UICs with detected usage.
- Reenabling disk quotas—If usage counts have not been updated for some period because of suppression or suspension of the DISKQUOTA feature, REBUILD should be run to correct the usage.

The REBUILD command requires write access to the quota file, as well as one of the following: the SYSPRV privilege, a system UIC, or ownership of the volume.

EXAMPLE

DISKQ> REBUILD

The command in this example reconstructs the usage counts for all entries on the volume.

REMOVE

Deletes an entry from the quota file. The REMOVE command requires write access to the quota file.

If the usage count for the UIC is not zero, a warning message is issued. (The UIC is removed, however.) UIC [0,0] cannot be removed.

FORMAT

REMOVE *uic*

command parameter

uic

Specifies the user identification code (UIC). You can specify the UIC in numeric or alphanumeric format. (For complete information on UIC specification, refer to the *VAX/VMS DCL Dictionary*.)

command qualifiers

None.

EXAMPLE

DISKQ> REMOVE [300,211]

The command in this example deletes UIC [300,211] from the quota file.

DISK QUOTA
SHOW

SHOW

Displays quotas, overdrafts, and usage counts.

Use of the SHOW command requires no privileges to show one's own quota, overdraft, and usage count, but otherwise requires read access to the quota file.

FORMAT **SHOW** *uic*

**command
parameters**

uic

Specifies the user identification code (UIC). You can specify the UIC in numeric or alphanumeric format. (For complete information on UIC specification, refer to the *VAX/VMS DCL Dictionary*.)

You can use an asterisk wildcard character (*) to specify the UIC as follows:

Command	Description
SHOW [300,211]	Show user 211 in group 300
SHOW [300,*]	Show all users in group 300
SHOW [*,211]	Show all users with a member number of 211
SHOW [*,*]	Show all users

**command
qualifiers**

None.

EXAMPLE

DISKQ> SHOW [360,*]

The command in this example displays quotas, overdrafts, and usage counts for all users in group 360.

USE

Specifies the volume to be acted upon.

FORMAT

USE *device*

command parameter

device

Specifies the physical or the logical name of the device for which disk quotas are being set.

If USE is not specified, DISKQUOTA uses the user's default device. USE can be specified more than once during a session to work with quota files on more than one volume.

Any volume in a volume set can be specified. The volume actually operated on, however, is relative volume 1.

command qualifiers

None.

EXAMPLES

1 DISKQ> **USE DMA2:**

This command specifies the device by its physical name, DMA2:.

2 DISKQ> **USE X2_RESEARCH_DATA**

This command specifies the logical name of the physical device.

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